

Patent Claims

1. Device for the transport of metallic work pieces, in particular during a heat treatment with a transport device and a carriage movable horizontally to the transport direction, characterized in that the transport device is carried by a rack that is movable relative to the carriage, whereby the transport device is float-mounted in relation to the carriage.
2. Device according to Claim 1 characterized in that the float-mounting of the transport device is formed by a number of elastic bearing elements located between the transport device on the one hand and the rack on the other hand.
3. Device according to Claim 1 or 2 characterized that the bearing elements consist preferably of molded element made of rubber.
4. Device according to one of the previous claims characterized in that the molded element are respectively equipped with a locking plate made of metal, preferable made of steel on the rack side and the transport device side.
5. Device according to one of the previous claims characterized in that the molded element is equipped with at least one liner plate made of metal, preferably made of steel.
6. Device according to one of the previous claims characterized in that the locking plate or the liner plate is vulcanized on or in the molded element.
7. Device according to one of the previous claims characterized in that the transport device is a heat-insulated and gas and/or vacuum tight transport chamber.

8. Device according to one of the previous claims characterized in that a transport device in form of a transport chamber is equipped with a clamping device for a vacuum-tight seal connected with a corresponding clamping device on the matching module.
9. Device according to Claim 8 characterized in that the clamping device is formed from at least two clamping devices that are movable relative to the transport chamber that engage in a bracing position in abutments formed at the matching module.
10. Device according to one of the Claims 8 or 9 characterized in that the clamping devices can be rotated.
11. Device according to one of the Claims 8 to 10 characterized in that the clamping devices can be moved or twisted hydraulically, pneumatically and/or electrically.
12. Device according to one of the Claims 8 to 11 characterized in that the clamping devices are equipped with clamps at the matching module end.
13. Device according to one of the Claims 8 to 12 characterized in that the abutments formed at the matching module correspond in form to the clamps.
14. Device according to one of the previous claims characterized in that the transport chambers on the adapter side are equipped with a seal, preferably in form of an O-ring.